

Solution of a problem of \mathbb{R} -linear conjugation for confocal elliptical annulus in the class of piecewise meromorphic functions

Fadeev A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We consider the problem of disturbance of a complex potential after insertion of a foreign inclusion in the form of a two-phase confocal elliptical annulus into a homogeneous medium. We investigate the cases of an arbitrary distribution of singularities. © 2013 Allerton Press, Inc.

<http://dx.doi.org/10.3103/S1066369X13060054>

Keywords

\mathbb{R} -linear conjugation problem, analytic functions, confocal elliptical annulus, heterogeneous medium, Zhukovskii function